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(54) **One-part polysulfide-based sealant compositions.**

(57) A one-part polysulfide sealant composition comprises a mercaptan-terminated liquid polysulfide, an oxidising agent to cure the catalyst a desiccant such as a molecular sieve, to keep the composition dry and thus prevent premature activation of the catalyst, and a cure accelerator having an acrylate or methacrylate functionality of 2 or more, preferably an acrylated liquid polysulfide or a polyfunctional methacrylate monomer. The use of this accelerator avoids the need for toxic amounts of barium oxide desiccant and substantially shortens the tack-free time on curing.

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EUROPEAN SEARCH REPORT

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EP 92 31 1416

| DOCUMENTS CONSIDERED TO BE RELEVANT | | | |
|---|---|---|---|
| Category | Citation of document with indication, where appropriate, of relevant passages | Relevant to claim | CLASSIFICATION OF THE APPLICATION (Int. Cl.5) |
| D,Y | EP-A-0 377 485 (MORTON INTERNATIONAL LIMITED) * the whole document * --- | 1,4-6,8, 11-15 | C09K3/10 |
| Y | PATENT ABSTRACTS OF JAPAN vol. 14, no. 539 28 November 1990 & JP-A-22 28 388 (YOKOHAMA) 1 March 1989 * abstract * --- | 1,4-6,8, 11-15 | |
| Y | DE-A-1 906 002 (THE B.F. GOODRICH COMPANY) * the whole document * --- | 1,4-6,8, 11-15 | |
| A | EP-A-0 194 361 (RUTGERSWERKE) * claims; examples * --- | 1,4-6 | |
| A | DE-A-1 945 457 (DIAMOND SHAMROCK CORP.) * the whole document * ----- | 1 | |
| | | | TECHNICAL FIELDS SEARCHED (Int. Cl.5) |
| | | | C09K C08G |
| The present search report has been drawn up for all claims | | | |
| Place of search THE HAGUE | Date of completion of the search 20 JULY 1993 | Examiner PUETZ C. | |
| CATEGORY OF CITED DOCUMENTS | | T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons ----- & : member of the same patent family, corresponding document | |
| X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document | | | |